

```
1 import nltk
2 from textblob import TextBlob
3 import tkinter as tk
4 from newspaper import Article
5
6
7 def summarize():
8     url = utext.get("1.0", "end").strip()
9     article = Article(url)
10
11     article.download()
12     article.parse()
13     article.nlp()
14
15     title.config(state="normal")
16     author.config(state="normal")
17     pub_date.config(state="normal")
18     seentiment.config(state="normal")
19     summary.config(state="normal")
20
21     title.delete("1.0", "end")
22     title.insert("1.0", article.title)
23
24     author.delete("1.0", "end")
25     author.insert("1.0", article.authors)
26
27     pub_date.delete("1.0", "end")
28     pub_date.insert("1.0", article.publish_date)
29
30     summary.delete("1.0", "end")
31     summary.insert('1.0', article.summary)
32
33     analysis = TextBlob(article.text)
34     seentiment.delete("1.0", "end")
35     # seentiment.insert(f"sentiment" : "positive" if
36     {analysis.polarity>0} else "negative" if {analysis.
37     polarity<} else "neutral")
38
39     title.config(state="disabled")
40     author.config(state="disabled")
41     pub_date.config(state="disabled")
```

```
40     seentiment.config(state="disabled")
41     summary.config(state="disabled")
42
43
44 root = tk.Tk()
45 root.title("Text summarizer tool")
46 root.geometry('1200x600')
47
48 tlabel = tk.Label(root, text="Title")
49 tlabel.pack()
50
51 title = tk.Text(root, height=2, width=140)
52 title.config(state="disabled", bg="#dddddd")
53 title.pack()
54
55 alabel = tk.Label(root, text="Author")
56 alabel.pack()
57
58 author = tk.Text(root, height=2, width=140)
59 author.config(state="disabled", bg="#dddddd")
60 author.pack()
61
62 plabel = tk.Label(root, text="Publication Date")
63 plabel.pack()
64
65 pub_date = tk.Text(root, height=2, width=140)
66 pub_date.config(state="disabled", bg="#dddddd")
67 pub_date.pack()
68
69 slabel = tk.Label(root, text="summary")
70 slabel.pack()
71 summary = tk.Text(root, height=8, width=140)
72 summary.config(state="disabled", bg="#dddddd")
73 summary.pack()
74 setlabel = tk.Label(root, text="Sentiment")
75 setlabel.pack()
76 seentiment = tk.Text(root, height=2, width=140)
77 seentiment.config(state="disabled", bg="#dddddd")
78 seentiment.pack()
79 ulabel = tk.Label(text="URL")
80 ulabel.pack()
```

```
81 utext = tk.Text(root, height=2, width=140)
82 utext.pack()
83 btn = tk.Button(root, text="Summarize", command=
    summarize)
84 btn.pack()
85 root.mainloop()
86
87 summarize()
88
```